

DP-310,965

UNITARY HOLLOWED PISTON WITH
IMPROVED STRUCTURAL STRENGTH

ABSTRACT OF THE DISCLOSURE

A unitary, "hollow out" piston is molded or forged with only two tools, which move along a single parting direction, with a pair of arcuate side walls that provide maximal outer surface area with minimal thickness and weight. The thin walls are internally fortified by a cruciform support structure that is molded integrally by the same tools. No post forming machining steps are needed to reduce weight.